



Terminal 5



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- Thriving highly-used marine terminal:
 - Grain facility built in 1970's
 - Potash facility built in 1980's
- Columbia River Deepening to 43-feet to be completed in 2010
- By deepening Berth 501 and Berth 503, tenants will be able to load vessels to 43-foot draft:
 - Berth 501: Grain exports by Columbia Grain
 - Berth 503: Potash exports by Canpotex/Portland Bulk Terminals



Terminal 5 Deepening

Dredging:

- From 40-feet draft to 43-feet draft
- Removal of approximately 10,000 cubic yards per berth
- By mechanical means, clamshell-bucket, into barges

Offloading:

- Barges transported to placement site at Hayden Island
- Sediments pumped ashore into placement area
- Same process as T2, T5 and T6 projects in 2007, 2008



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Terminal 5
Berth 503



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Hayden Island Placement Site



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